

LIST OF NEW MEMBERS AND ASSOCIATE MEMBERS

Alex Aguilar	Howard Harary	William Ratcliff
Kathryn Beers	Semen Kharchenko	Darwin Reyes
Branimir Blagojevic	Li Ma	Carl Simon
Erge Edgu-Fry	Ying Mei	Chad Snyder
Dan Fry	Josh Pomeroy	Joseph Tan

NIST SIGMA XI CHAPTER PRESIDENTS

Hans J. Oser	1976-77	Kenneth G. Kreider	1990-91
John W. Rowen	1977-78	Ronald G. Rehm	1991-92
H. Steffen Peiser	1978-79	Edgar S. Etz	1992-93
Karl G. Kessler	1979-80	Barbara C. Levin	1993-94
Theodore V. Vorburger	1980-81	Harry L. Rook	1994-95
Barbara F. Howell	1981-82	W. Robert Kelly	1995-96
Edward L. Brady	1982-83	Robert D. Shull	1996-97
James F. Schooley	1983-84	Dale E. Newbury	1997-98
Anna C. Fraker	1984-85	Daniel W. Lozier	1998-99
Chris E. Kuyatt	1985-86	William R. Ott	1999-00
Lawrence H. Bennett	1986-87	Robert A. Fletcher	2000-01
Howard E. Sorrows	1987-88	Bert M. Coursey	2001-02
Marilyn E. Jacox	1988-89	Gerald V. Blessing	2002-03
Johanna M. H. Levelt Sengers	1989-90	Charles D. Ehrlich	2003-04

ACKNOWLEDGMENTS

CONGRATULATIONS TO:

Sponsored teams who participated in the **Sally Ride Science Festival Toy Challenge**, held at George Mason University: **Rainforest Chicas** (Angelica Arrellano, Mariana Camacho, Asjah Jones, Aysha Mahmood, Kasandra Martinez, and Chelsea Tadesse) and **Building Girls** (Kiana Delph, Jessica Gaitan, Haley Montano, Norma Montes, and Solmayra Torres) from Washington Grove Elementary School. Both teams won in the educational category and were invited to the National Competition in California in July. The *Chicas* also won “best overall toy”, with a prize of \$250.

MANY THANKS TO:

Charles Ehrlich, Edgar Etz, Robert Fletcher, Abigail Lindstrom, and Dale Newbury, for serving as **Montgomery Area Science Fair Sigma Xi Judges**, Gerald Blessing, Joseph Conny, and Robert Myklebust as **Frederick County Science Fair judges**.

The Willow Tree Inn, Thursday, May 13, 2004

Annual Banquet Program

- 5:30 pm Social Hour (Cash Bar)
- 6:00 pm Toy Challenge Presentation
- 6:30 pm Dinner
- 7:15 pm Program
- Remarks & Introduction of Current Officers Charles D. Ehrlich
- Remarks by the Incoming President Alan H. Cookson
- Introduction of New Officers Alan H. Cookson
- Introduction of New Members Ellyn S. Beary
- Presentation of Awards

Outstanding Teacher Award

Angela R. Hight-Walker

James Douglas	(Sherwood High School)
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Measurement Science Awards for High School Science Fairs

Edgar S. Etz

Montgomery County	
Nicholas Jachowski	(Thomas S. Wooten High School)
Frederick County	
Alan Gee	(Middletown High School)

Outstanding Post-doctoral Presentation Awards

Barbara C. Levin

Karin M. Balss	(Process Measurements Division, CSTL)
Dean M. DeLongchamp	(Polymers Division, MSEL)

Young Scientist Awards for Excellence in Scientific Research

Marilyn E. Jacox

Seung-Hun Lee	(NIST Center for Neutron Research, MSEL)
James V. (Trey) Porto	(Atomic Physics Division, PL)

Outstanding Service in Support of Research Scientists

Marilyn E. Jacox

Denis A. Lehane	(Enterprise Systems Division, OD)
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Outstanding Service to the NIST Sigma Xi Chapter

Charles D. Ehrlich

Gerald V. Blessing	(Mechanical Metrology Division, MEL)
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Introduction of Speaker

Alan H. Cookson

Robert L. Shepard	(Science and Engineering Alliance)
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Sigma Xi, The Scientific Research Society

National Institute of Standards and Technology Chapter



28th Annual Banquet

Featured Speaker:

Dr. Robert L. Shepard

**Executive Director,
Science and Engineering Alliance, Inc.**

**HISTORICALLY BLACK COLLEGES
AND UNIVERSITIES:
MYTHS AND MISUNDERSTANDINGS**



Established under segregated education policies mandated by the U.S. Supreme Court, HBCUs emerged with a powerful resolve to educate America’s black slave class. Their challenge is to serve the under-prepared and under-privileged who would normally be excluded from the educational system. Despite always operating on the verge of financial collapse, HBCUs continue to be a key source of African American leaders in the fields of science, technology, engineering and mathematics (STEM). This talk will examine the myths and misunderstandings that continue to surround these landmark educational institutions.

Willow Tree Inn

Thursday, May 13, 2004

LIST OF 2003-2004 PRESENTATIONS AND SPEAKERS

*A Trip to the Moon and the Legacy of Apollo 17**
Harrison Schmitt, Apollo 17 Astronaut (University of Wisconsin)
Green Auditorium, September 5, 2003

Ultrasound: An Unexplored Tool for Blood Flow Visualization and Hemodynamic Measurements
K. Kirk Shung (University of Southern California)
Green Auditorium, October 24, 2003

*Creativity and Innovation in the Workplace**
Dean Kamen, Founder and President (DEKA Research and Development Corporation)
Green Auditorium, November 10, 2003

Interfacing the Physical and Biological Sciences: NIH/NIST Collaborative Projects
Angela Hight-Walker (Chair), Newell Washburn, Lori Goldner, Miral Dizdaroglu and Michael Gaitan (NIST)
Green Auditorium, November 17, 2003

*Why Wilbur and Orville?**
Tom Crouch, Senior Curator and Chairman (Division of Aeronautics, National Air and Space Museum)
Green Auditorium, December 19, 2003

Role of NIST in Forensic DNA Typing
John Butler (CSTL, NIST)
Green Auditorium, January 13, 2004

Microfluidic Processing, a New Paradigm for Biomolecular Separations
David Ross (CSTL, NIST)
2003 NIST Sigma Xi Young Scientist Award
Green Auditorium, February 11, 2004

11th Annual Post-Doctoral Poster Presentation
Barbara C. Levin, Chair
Hall of Flags, February 19, 2004



Quantum Measurements and Standards Based on Condensed Matter Physics
Richard Harris (EEEL, NIST)
Green Auditorium, March 10, 2004

*How Things Work: The Physics of Everyday Life**
Louis Bloomfield (University of Virginia)
Green Auditorium, April 2, 2004

Historically Black Colleges and Universities: Myths and Misunderstandings
Robert Shepard, Executive Director (Science & Engineering Alliance)
2004 NIST Sigma Xi Banquet Speaker, May 13, 2004

* A joint event with the NIST Colloquium Series

OFFICERS AND COMMITTEES

	2003-2004	2004-2005
Executive Committee President President-Elect Secretary Treasurer Past President Web Master Headquarters Liaison	<div></div> <div>Charles D. Ehrlich (2004) Alan H. Cookson (2005) Karl Irikura (2005) John Rumble (2005) Gerald V. Blessing (2003) Heather Chen-Mayer Magdalena Navarro (International Committee)</div>	<div></div> <div>Alan H. Cookson (2005) Magdalena Navarro (2006) Karl Irikura (2005) John Rumble (2005) Charles D. Ehrlich (2004) Heather Chen-Mayer Magdalena Navarro (International Committee)</div>
Nominations Committee	<div>Laurie Locascio (2004, Chair) Thomas E. Gills (2003) Fern Hunt (2004) Charles D. Ehrlich (<i>ex officio</i>)</div> <div>Karl Irikura (2004) Michael P. Casassa (2005) Abigail Lindstrom (2005)</div>	<div>Abigail Lindstrom (2005, Chair) Michael P. Casassa (2005) Alan H. Cookson (<i>ex officio</i>) Ambler Thompson (2006)</div> <div>Laurie Locascio (2006) Mary Satterfield (2006)</div>
Admissions Committee	<div>Ellyn S. Beary (2004, Chair) Howard Baum (2004) Michael Gaitan (2005) George G. Harman (2004)</div> <div>Lisa Karam (2003) Barbara C. Levin (2004) John R. Rumble Jr. (2003)</div>	<div>(Chair to be determined) Michael Gaitan (2005) Barbara C. Levin (2006)</div> <div>Mike Moldover (2006) Joe Rice (2006)</div>
Education Committee (Open to all Members and Associate Members)	<div>Angela R. Hight-Walker (Chair) Gerald V. Blessing Julia Y. Chan Jack J. Hsia John R. Maurey Dale E. Newbury Robert D. Shull</div> <div>John Blendell Carol A. Handwerker W. Robert Kelly Robert L. Myklebust Catherine D. O’Connell John A. Small</div>	<div>Angela R. Hight-Walker (Chair) Gerald V. Blessing Julia Y. Chan Jack J. Hsia John R. Maurey Dale E. Newbury Robert D. Shull</div> <div>John Blendell Carol A. Handwerker W. Robert Kelly Robert L. Myklebust Catherine D. O’Connell John A. Small</div>
Program Committee	<div>Alan H. Cookson (Chair) Charles D. Ehrlich Daniel W. Lozier Robert D. Shull Gerald V. Blessing</div> <div>William R. Ott Dale E. Newbury Magdalena Navarro</div>	<div>Alan H. Cookson (Chair) Charles D. Ehrlich Daniel W. Lazier Robert D. Shull Gerald V. Blessing</div> <div>William R. Ott Dale E. Newbury Magdalena Navarro</div>
Awards Committee	<div>Marilyn E. Jacox (Chair) Kennetch G. Kreider Theodore V. Vorburger</div> <div>Robert D. Shull</div>	<div>Marilyn E. Jacox (Chair) (Members to be appointed)</div>
Postdoctoral Poster Presentation Committee (Open to all Members and Associate Members)	<div>Barbara C. Levin (Chair) Heather H. Chen-Mayer Robert A. Fletcher W. Robert Kelly Jack J. Hsia</div> <div>Julian Ives Dan Lozier Magdalena Navarro Dale E. Newbury</div>	<div>Barbara C. Levin (Chair) Heather H. Chen-Mayer Edgard Etz Robert A. Fletcher Jack J. Hsia</div> <div>Julian Ives W. Robert Kelly Dan Lozier Magdalena Navarro</div>